

CLAIMS

1. A regulator of angle and reactive moment of a gerotor type motor having a spindle and drilling bit in a bent drilling string, comprising:

a central hollow element and three hollow mutually misaligned tubular elements connected to the central hollow element, each of which three tubular elements having an inner through opening;

the inner hollow tubular element being disposed in the centre between the first and second elements;

the first and second tubular elements being connected to the inner hollow tubular element by threads provided on their edges that face one another;

the first tubular element being connected by a thread to the spindle;

the second hollow tubular element being connected by a thread to the motor housing;

the central hollow element being connected to the inner hollow element by splines;

the inner hollow element having threads on its edges, the threads having axes that cross one another and the central axis of the inner hollow element;

the longest distance between said threads axes is the double value of the rotor eccentricity with respect to the gerotor type motor stator;

the longest distance between the central axis of the inner hollow element and any of the threads on its edges being equal to the rotor eccentricity with respect to the gerotor type motor stator;

characterised in that

the central hollow element and the first hollow tubular element, at the side where the first element is connected to the spindle, both are provided with their own contact

segmental section, said contact segmental sections constitute a pair of the contact segmental sections disposed at different sides with respect to the spindle meridian plane in the drilling string bend plane, wherein the proximate edges of the contact segmental sections are disposed along the central axis at distance L , which has the following relationship with spindle outer diameter D : $L \geq D$, and the angular deviation of the first hollow tubular element's contact segmental section from the spindle meridian plane in the drilling string bend plane being provided in the opposite direction relative to the reactive moment imparted by the drilling bit.

2. The regulator of angle and reactive moment of a gerotor type motor according to claim 1, characterised in that the contact segmental sections generatrices on the central hollow element and on the first hollow tubular element are disposed over the external face of the respective tubular element, and each contact segmental section comprising rows of teeth or pins secured on the tubular element, wherein hardness of the teeth or pins is greater than that of the sections.